INDUSTRIAL 120 - 1104
81100 81150 81200
SEP 1 2006
81250 82050 82100

PASSAIC VALLEY SEWERAGE COMMISSIONERS
APPLICATION FOR A SEWER USE PERMIT

SECTION A

1. Company Name Columbus Hospital
2. Permit Number if applicable: 20210015
3. Location: 495 North 13th Street, Newark, New Jersey 07107
4. Mailing Address: same
5. Person to contact concerning information provided in this application:

   Name of Contact Official: Joseph Conway

   Title: Facilities Supervisor Phone Number: (973) 268-1400

   Address: same
6. Number of Employees: Full Time: 450 Part Time: 150

   Number of Work Days Per Year: 365

   Number of Shifts Per Day: 3
7. If property is owned indicate block and lot number(s): Block # 650 Lot #s 000001, 00002, 00004, 00005, 00006, 00007, 00008, 00022, 00035, 00038, 00039, 00041, 00045, 00046, 00047. Block # 653 Lot #s 00013, 00015, 00016, 00017, 00018, 00024
8. If property is rented indicate name and address of owner:

   N/A
9. List NJDES Permit number, if applicable, N/A and name

   of receiving body of water entered N/A

Check received 7/30/06

SECTION B

WATER DATA

10. Water Source: (all appropriate answers)

Purchased	Y	-	N				
Well	Y	-	N	If Y, is it metered	Y	-	N
River	Y	-	N	If Y, is it metered	Y	-	N

11. Name of purchased water supplier: City of Newark

List all Account #s: 45111, 34898, 38072, 38075, 50385

12. Water Received From: Month 1 Year 2005 Through: Month 12 Year 2005 .

(* Next to a figure means it is estimated.)

	Purchased	Well	River	Total
1st Quarter	2,279,904	N/A	N/A	2,279,904
2nd Quarter	2,620,992	N/A	N/A	2,620,992
3rd Quarter	4,519,416	N/A	N/A	4,519,416
4th Quarter	3,134,120	N/A	N/A	3,134,120
GRAND TOTAL (report in gallons)				12,554,432

13. Water Use and Disposition (*Next to a figure means it is estimated.)

	Gallons Sanitary/Combined Sewer	Discharged Stormsewer/River/ Ditch	Gallons Used/Other
Sanitary Service Only	8,426,710		
Process Waste Water	2,808,904		
Cooling Water			
Evaporation			1,318,818
Contained in the product			
Other (Describe)			
GRAND TOTAL			12,554,432

SECTION B (continued)

14. Process wastewater which is discharged as above is metered as follows:

to the Separate Sanitary Sewer No
to the Combined Sewer No
to a storm sewer No
river or ditch No

15. Waste Hauler Information List all firms and/or independent contractors used to remove process waste or sludge from this facility.

Contractor	Address	ICC#	Waste type handled
Mack Service Co., Inc.	201 Chestnut St., Newark, NJ 07105	NJDEP 20100	General Garbage Waste
Stericycle, Inc.	5 Lawrence St. Bloomfield, NJ 07003	NJDEP 19713	Medical Waste

SECTION C

OPTIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous 24 hrs. or intermittent

NA each operating day.

If the discharge is intermittent, it occurs between the following hours: N/A

17. Brief description of Manufacturing or other activity performed: Hospital (Healthcare)

List SIC CODE #: 8062

18. Principal Raw Materials Used: N/A

19. Principal Products or Services: Healthcare Services

20. Describe seasonal variations, if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: N/A
Does this facility shutdown for vacations? No If so, is it basically the same time each year? N/A
Please provide dates usually shut down N/A

SECTION B (continued)

14. Process wastewater which is discharged as above is metered as follows:

to the Separate Sanitary Sewer No
to the Combined Sewer No
to a storm sewer No
river or ditch No

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19. Principal Products or Services: Healthcare Services

20. Describe seasonal variations, if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: N/A
Does this facility shutdown for vacations? No If so, is it basically the same time each year? N/A
Please provide dates usually shut down N/A

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use:

Outlet N/A _____

_____

Outlet _____ _____

_____

Outlet _____ _____

_____

22. Sampling information:

Outlet	Contains Ind. Waste	Sampler Type	Refrigerated
1	YES	SIGMA 900	NO
2	YES	SIGMA 900	NO
3	YES	SIGMA 900	NO
4	NO	N/A	N/A

SECTION D (continued)

23. Volume Information:

Outlet	Daily Flow (Gallons)	Metered (Yes or No)	Type	Date
1	12,382	NO	N/A	N/A
2	5,159	NO	N/A	N/A
3	13,070	NO	N/A	N/A
4	3,785	NO	N/A	N/A

24. Frequency of calibration of each flow meter: N/A

25. Attach a plot plan of the property showing:

a. All existing or proposed sewer and drain lines (including outlets to a storm-sewer, river or ditch).

b. Sample point(s); Monitoring or Pretreatment Equipment; Incoming meter(s); Well meter(s); Internal meter(s); Flowmeter(s).

c. Details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET #: 1950 Building, 1972 Building, 1993 Building

Report to the nearest unit: XX. except where indicated with (1) Example: .15 mg/l			Report to the nearest hundredth: 0.XX except where indicated Example: 0.36 mg/l		
Code	**Parameter**	Value	Code	**Parameter**	Value
0200*	Radioactivity (PL-1)	NA	1097*	Antimony (Sb)	NA
0500	Total Solids	313 mg/L	1002*	Arsenic (As)	NA
0505	Volatile Solids	113 mg/L	1022*	Boron (B)	NA
0530	Total Suspended Solids	49 mg/L	1027*	Cadmium (Cd)	< 0.001 mg/L
0540	Volatile Suspended Solids	47 mg/L	1034*	Chromium Total (Cr)	NA
0555	Petroleum Hydrocarbons	3.0 mg/L	1042*	Copper (Cu)	0.11 mg/L
0310	Biochemical Oxygen Demand (BOD)	48.0 mg/L	1045*	Iron (Fe)	1.29 mg/L
			1051*	Lead (Pb)	0.01 mg/L
0340	Chemical Oxygen Demand (COD)	178 mg/L	0720*(3)	Cyanide (CN)	< 0.02 mg/L
			1900*	Mercury (Report to 0.XXX)	< 0.0005 mg/L
0680	Total Organic Carbon (TOC)	26.6 mg/L	1067*	Nickel (Ni)	0.015 mg/L
			1147*	Selenium (Se)	NA
9000	pH (standard unit range)	7.03 mg/L	1092*	Silver (Ag)	NA
0610	Ammonia as N	24.4 mg/L	1077*	Tin (Sn)	NA
0550	Total Oil & Grease	5.8 mg/L	1092*	Zinc (Zn)	0.17 mg/L
0745*	Sulfide	NA	2730	Phenol	0.10 mg/L
0507*	Ortho Phosphates as P	NA	4053*	Pesticides (Report to 0.XXX)	NA
0625*	Kjeldahl N as N	NA	999*(3)	TTVO (Report to 0.XXX)	NA
9998*	TTO (Report to 0.XXX)	NA			

FOOTNOTES:

(1) Report results to the nearest tenth, i.e., 1.6 mg/L.
(*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.
(2) See instructions.
(3) Grab sample required.
NA - Not Analyzed

SECTION E (continued)

Samples collected by: Enviro-Sciences, (of Delaware) Inc

111 Howard Boulevard, Suite 108, Mt. Arlington, NJ 07856 Date: Aug. 7, 2006

Samples analyzed by: Integrated Analytical Laboratories (IAL)

273 Franklin Road, Randolph, NJ 07869, Certified Lab ID# 14751 Date: Aug. 7, 2006

Products being manufactured when sample was collected: N/A

27. Who performs the analyses of the samples for User Charge: (IAL)

28. Is the Laboratory certified by the NJDEP to conduct all the analyses: Yes X No ___

29. Who performs the analyses of the samples for the Pretreatment Parameters?

N/A

(If monitoring has not commenced for Pretreatment, indicate Laboratory you plan to use. If unknown, so state): N/A

30. Is the Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

N/A

31. Based upon knowledge of materials and processes used at this facility check the appropriate box that best describes the potential that a Priority Pollutant, listed on Tables 1, 2 & 3 is present in your discharge.

SECTION F

PRETREATMENT

32. Industrial Category: Healthcare

33. Subpart(s):_____

34. Compliance date(s): N/A

35. Is facility in compliance? N/A If not, and if compliance date has passed, explain actions being taken to get into compliance: N/A

36. Date Baseline monitoring Report (BMR) submitted to PVSC: N/A

37. Compliance schedule submitted? N/A If yes, is facility on schedule N/A Explain if compliance date will not be met: N/A

38. Does this facility come under the Resource Conservation and Recovery act (RCRA)?

No

39. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan? If yes, describe:

N/A

39. Has this facility ever been cited by NJDEP or EPA for a violation of State or Federal Regulations for the nature of its wastewater discharge? Yes_____ No X

40. Is this facility under an ECRA Cleanup? No If so, has a plan been approved by NJDEP: N/A Is there any plan to discharge groundwater? No

CERTIFICATION*:

The information contained in this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of signing official: Joseph Conway
PRINT

Title: Facilities Supervisor

Date: 8/30/06 Signature: Joseph C

***APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:**

- **a. Principal Officer of Corporation**
- **b. President or Owner of Company**
- **c. General Partner, if a Partnership**
- **d. Plant Manager or Authorized Representative**

TABLE 2 EPA HAZARDOUS SUBSTANCES
CHECK APPROPRIATE BOX

Acenaphthene				X	2,4 dimethylphenol				X
Acrolein				X	2,4 dinitrotoluene				X
Acrylonitrile				X	2,6 dinitrotoluene				X
Benzene				X	1,2 diphenylhydrazine				X
Benzidine				X	Ethylbenzene				X
carbon tetrachloride (tetrachloromethane)				X	Flouranthene				X
Chlorobenzene				X	4-chlorophenyl phenyl ether				X
1,2,4-trichlorobenzene				X	4-bromophenyl phenyl ether				X
Hexachlorobenzene				X	bis(2-cloroisopropyl) ether				X
1,2 dichloroethane				X	bis(2-chloroethoxy) methane				X
1,1,1 trichloroethane				X	methylene chloride (dichloromethane)				X
Hexachloroethane				X	methyl chloride (chloromethane)				X
1,1 dichloroethane				X	methyl bromide (bromomethane)				X
1,1,2 trichloroethane				X	bromoform (tribromomethane)				X
1,1,2,2 tetrachloroethane				X	Dichlorobromomethane				X
Chloroethane				X	Trichlorobromomethane				X
bis(chloromethyl) ether				X	Dichlorodifuoromethane				X
bis(2 chloroethyl) ether				X	Chlorodibromomethane				X
2-chloroethyl vinyl ether (mixed)				X	Hexachlorobutadiene				X
2-chloronaphthalene				X	Hexachlorocyclopentadiene				X
2,4,6, trichlorophenol				X	Isophorone				X
parachlorometa cresol				X	Naphthalene				X
chloroform (trichloromethane)				X	Nitrobenzene				X
2 chlorophenol				X	2-nitrophenol				X
1,2,dichlorobenzene				X	4-nitrophenol				X
1,3, dichlorobenzene				X	2,4-dinitrophenol				X
1,4, dichlorobenzene				X	4,6 dinitro-o cresol				X
3,3 dichlorobenzidine				X	N-nitrosodimethylamine				X
1,1 dichloroethylene				X	N-nitrosodiphenylamine				X
1,2, trans-dichloroethylene				X	N-nitrosodi-n-proplyamine				X
2,4, dichlorophenol				X	Pentachlorophenol				X
1,2, dichloropropane				X	Phenol				X
1,3, dichloropropylene				X					
(1,3 dichloropropene)				X					
NAME	**A**	**B**	**C**	**D**	**NAME**	**A**	**B**	**C**	**D**
bis(2-ethlhexyl) phthalate				X	Endrin				X
Butylbenzylphthalate				X	endrin aldahyde				X
di-n-butylphthalate				X	Heptachlor				X
di-n-octylphthalate				X	heptachlor (epoxide)				X
Diethylphthalate				X	BHC Alpha				X
Dimethylphthalate				X	BHC Beta				X
benzo(a)anthracene				X	BHC Gamma				X
benzo(a)pyrene				X	BHC Delta				X
3,4 benzofluoranthane				X	PCB-1242				X
benzo(k)fluroanthene				X	PCB-1254				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 2 EPA HAZARDOUS SUBSTANCES
CHECK APPROPRIATE BOX

Chrysene				X	PCB-1221				X
Acenaphthylene				X	PCB-1232				X
Anthracene				X	PCB-1248				X
benzo(ghi)perylene				X	PCB-1260				X
Flourene				X	PCB-1016				X
Phenanthrene				X	Toxaphene				X
dibenzo(a,h)anthracene				X	antimony (total)				X
indeno(1,2,3-c,d)pyrene				X	arsenic (total)				X
Pyrene				X	asbestos (fibrous)				X
Tetrachloroethylene				X	beryllium (total)				X
Toluene				X	cadmium (total)				X
Trichloroethylene				X	chromium (total)				X
vinyl chloride				X	copper (total)				X
Aldrin				X	cyanide (total)				X
Dieldrin				X	lead (total)				X
Chlordane				X	mercury (total)				X
4,4 DDT				X	nickel (total)				X
4,4 DDE				X	selenium (total)				X
4,4 DDD				X	silver (total)				X
Endosulfan 11				X	zinc (total)				X
Endosulfan sulfate				X	2,3,7,8, tetrachlorodibenzo				X
					p-dioxin				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 2 EPA HAZARDOUS SUBSTANCES
CHECK APPROPRIATE BOX

NAME	A	B	C	D	NAME	A	B	C	D
Acrylamide				X	n,n-dimethyl aniline				X
Amitrole				X	3,3-dimethyl benzidine				X
amyl alcohols				X	1,1-dimethylhydrazine				X
anilne hydrochloride				X	dioxane				X
Anisole				X	diphenylamine				X
Auramine				X	ethylenimine				X
Benzotrichloride				X	hydrazine				X
Benzylamine				X	4,4-methylene bis (2-chloroaniline)				X
o-chloroaniline				X	methyl isobutyl ketone				X
m-chloroaniline				X	alpha-naphthylamine				X
p-chloraniline				X	beta-naphthylamine				X
l-chloro-2-nitrobenzene				X	n-methylaniline				X
1-chloro-4-nitrobenzene				X	1,2-pjenylenediamine				X
Chloroprene				X	1,4-phenylenediamine				X
Chrysoidine				X	sudan 1 (solvent yellow 14)				X
Cumene				X	thiourea				X
2,3-dichloroaniline				X	toluene sulfonic acids				X
2,4-dichloroaniline				X	toluidines				X
2,5-dichloroaniline				X	xylidines				X
3,4-dichloroaniline				X					
3,5-dichloroaniline				X					
1,3-dichloropropene				X					
1,3-dimethozybenzidine				X					

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 2 EPA HAZARDOUS SUBSTANCES
CHECK APPROPRIATE BOX

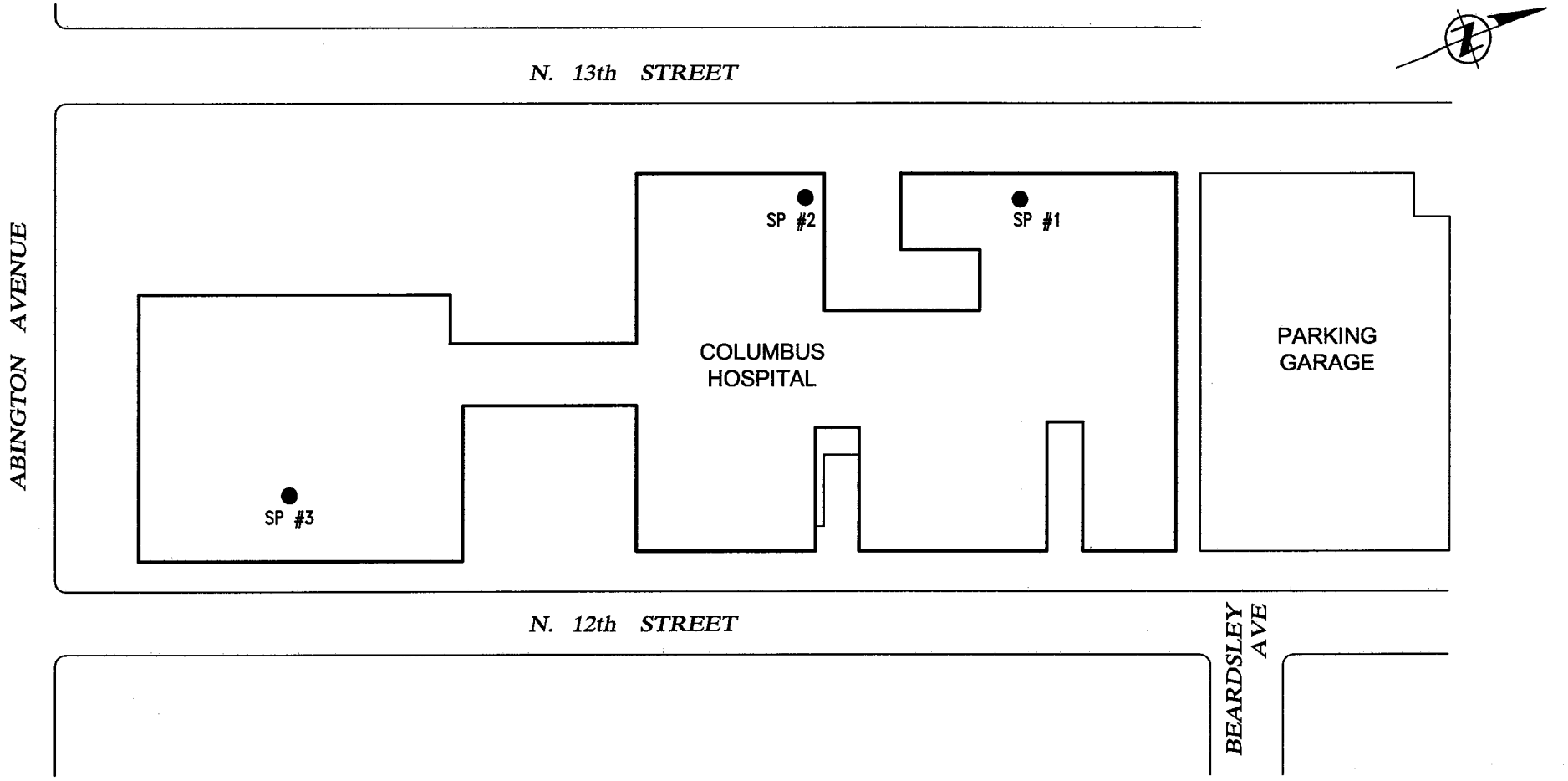
NAME	A	B	C	D	NAME	A	B	C	D
acetaldehyde				X	isopropanolamine				X
allyl alcohol				X	kelthane				X
allyl chloride				X	kepone				X
amyl acetate				X	malathion				X
Aniline				X	mercaptodimethur				X
Benzonitrile				X	methozychlor				X
benzyl chloride				X	methyl mercaptan				X
butyl acetate				X	methyl methacrylate				X
Butylamine				X	methyl parathion				X
Captan				X	mevinphos				X
Carbaryl				X	mexacarbate				X
Carbofuran				X	monoethyl amine				X
carbon disulfide				X	monomethyl amine				X
Chloropyrifos				X	naled				X
Coumaphos				X	naphenic acid				X
Cresol				X	nitrotoluene				X
Crotonaldehyde				X	parathion				X
Cyclohexane				X	phenosulfanate				X
2,4-D (2,4-dichlorophenoxy acetic acid)				X	phosgene				X
Diazinon				X	propargite				X
Dicamba				X	propylene oxide				X
Dichlobenil				X	pyrethrins				X
Dichlone				X	quinoline				X
2,2-dichloropropionic acid				X	resorinol				X
Dichlorovos				X	strontium				X
diethyl amine				X	strychnine				X
dimethyl amine				X	stryrene				X
Dinitrobenzene				X	2,4,5-T (2,4,5-trichlorophenoxy acetic acid)				X
Diquat				X	TDE (tetrachlorodiphenylethane)				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 2 EPA HAZARDOUS SUBSTANCES
CHECK APPROPRIATE BOX

Disulfoton				X	2,4,5-TP 2-(2,4,5-trichlorophenoxy)				X
Diuron				X	propanoic acid				X
Epichlorohydrin				X	trichlorofon				X
Ethalnolamine				X	triethylamine				X
Ethion				X	trimethylamine				X
ethylene diamide				X	uranium				X
ethylene dibromide				X	vanadium				X
Formaldehyede				X	vinyl acetate				X
Furfural				X	xylene				X
Guthion				X	xylenol				X
Isoprene				X	zirconium				X

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT



SAMPLE POINT #1 – WATER METER ROOM
(1950 BUILDING)

SAMPLE POINT #2 – GAS METER ROOM
(1972 BUILDING)

SAMPLE POINT #3 – HVAC (MECHANICAL) ROOM
(1993 BUILDING)

GRAPHIC SCALE
0 37.5' 75'
1" = 75'

PVSC SAMPLE LOCATIONS

COLUMBUS HOSPITAL
495 N. 13th STREET
NEWARK, NJ 07107

PROJECT MANAGER: J W P | PROJECT NO.:

ENVIRO-SCIENCES, (OF DELAWARE) INC.
111 Howard Boulevard, Suite 108
Mount Arlington, NJ 07856
973-398-8183 * Fax 973-398-8037

DRAWN BY/DATE	APPROVED/DATE	DRAWING NUMBER
RLL / 8-28-06		COL-SMPL-PTS

RLL | JWP Conway | 8/29/06

ENVIRO-SCIENCES (OF DELAWARE), INC.
111 HOWARD BOULEVARD, SUITE 108
MT. ARLINGTON, NJ 07856
(973) 398-8183 • FAX: (973) 398-8037

August 29, 2006

Mr. Andy Caltagirone
Manager of Industrial & Pollution Control
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Passaic Valley Sewerage Commissioners
Sewer Connection Permit Application
Columbus Hospital
495 North 13th Street
Newark, NJ 07107

Dear Mr. Caltagirone:

This letter and attachments is a follow-up to our package submitted last month and dated July 27, 2006. Enviro-Sciences (of Delaware), Inc. (ESI) has been retained by Columbus Hospital to perform wastewater sampling and assemble pertinent data for completion of the Passaic Valley Sewerage Commissioners (PVSC) 5-year Connection Permit Application.

We are submitting the complete application enclosed with this letter, together with the required analytical data and site plan. The application fee of $750 was previously submitted in July 2006.

If you have any questions, please contact either of the undersigned at (973) 398-8183.

Very truly yours,

ENVIRO-SCIENCES, INC.

Joseph W. Pilewski
Sr. Vice President

cc: J. Conway, Columbus Hospital
R. Lawrence, ESI